Number	Description	Recommended Action
13	Main microcontroller unable to access GEN_SEM semaphore.	Refer to *Correcting IC U6 Malfunctions* in this section.
14	Internal diagnostics. Calibration data checksum error on main microcontroller (data in error shown on terminal using serial port).	Refer to *Correcting IC U3 Malfunctions* in this section.
16	Diagnostics/microcontroller malfunction. T_ON average test failed.	Calibrate the ECON factor (refer to Section 5 for instructions). If the alarm number reappears, refer to *Correcting T_ON ASIC Malfunctions* in this section.
17	Isns and/or Vsns voltage detected without activation.	Do not attempt to use the generator. Record the number and call the Valleylab Service Center.
18	REM circuit failure. REM oscillator frequency outside acceptable operating range.	
19	Overvoltage detected on +5V supply.	Turn off, then turn on the generator. If the alarm number reappears, record the number and call the Valleylab Service Center.
30	Software malfunction. audio_state value outside state range.	
31	Software malfunction. Invalid alarm number.	
32	Software malfunction. alarm_state value outside state range.	
40	Software malfunction. selection_state [button_num] value outside state range.	
60	Software malfunction. which_display value outside state range.	
61	Software malfunction. which_led value outside state range.	
62	Software malfunction. key_req_mode value outside state range.	
63	Software malfunction. direction value outside state range.	
64	Software malfunction. msg.action_code value outside state range.	
65	Software malfunction. flash_state value outside state range.	
66	Software malfunction. Unable to find alarm number to display.	
67	Internal diagnostics. Settings data may be corrupted.	
68	Main microcontroller unable to access GEN_SEM semaphore.	Refer to *Correcting IC U6 Malfunctions* in this section.